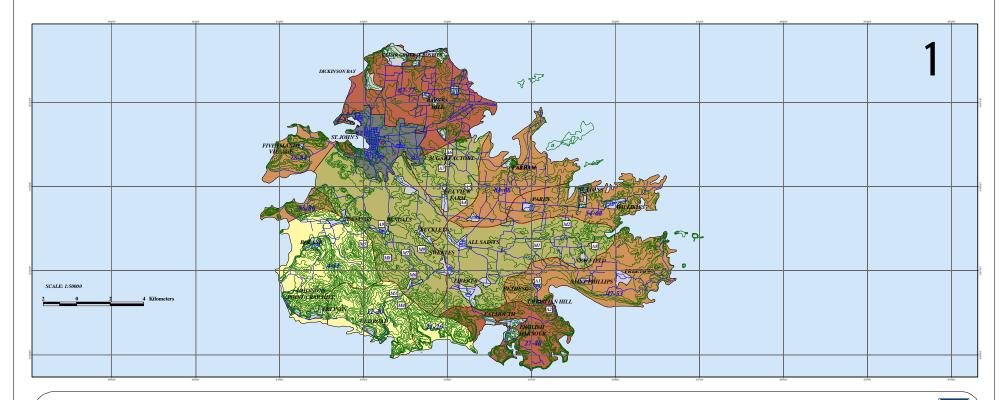
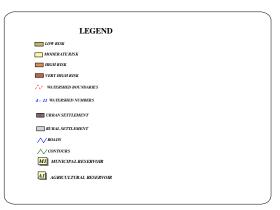
DROUGHT RISK ANTIGUA





EXPLANATORY TEXT

Drought Risk Criteria for Mapping

Mapping of areas on the basis of their risk to drought, namely, low, moderate, high and very high is based on a set of criteria. Vulnerability to drought is

Environmental Meteorological

- Rainfall < 40 inches
 Exposure to wind and Marine influences
 Shallow soils
 Slopes >11°
 Cactus scrub vegetation

Hydrological/Infrastructural

· Limited water resources (Absence of wells) · Shortage of dams / ponds

Human/Landuse

Excessive grazing
 Crop location
 Population density > 5000 persons per square mile

Level of risk was determined by giving each criterion a numerical value of 1 and the total value used to rank watersheds as shown:

Low drought risk <4 Moderate drought risk 5-6 High drought risk 7-8 Very high drought risk >9

• The spatial occurrence of vulnerability themes (criteria) in each watershed; and by
• Overlaying themes and observing the frequency and extent to which intersecting of themes

DATE: MARCH 2001

http://www.OAS.org/pgdm

USE AND LIMITATIONS OF MAP

Drought risk ranking by watersheds for Antigna was Only limited field observations were possible in achieved by manipulating data from six (6) data maps trainfall, vegatation, soils, slapes, watersheet for the properties of the properties of the properties of the properties of the planners and administrators as a point of departure for spatial analysis of watersheld the planners and administrators as a point of departure for spatial analysis of whereability issues at the watershed level. Spatial analysis within and across watersheds can be facilitated by GIS were some of the data maps, along with a digital contour map previously produced by the FGDM project. Therefore, while this drought risk map provides a useful point of reference for drought mitigation, field investigations are required to update information on the data maps, in some cases, to support additional spatial analysis of vulnerability and risk at the watershed level that would be critical to drought

